# Cytometer Performance Report

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|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 09/01/2015 12:02 PM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 04/20/2015 11:37 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123312 | -2 | 3.95 | 123026 | 3.87 |
| Blue | F | SSC | 125000 | 123104 | -2 | 3.19 | 123957 | 2.91 |
| Blue | E | FITC | 17998 | 17505 | -3 | 2.68 | 987 | 9.49 |
| Blue | D | PE | 23234 | 22540 | -3 | 2.17 | 1018 | 8.68 |
| Blue | B | PerCP-Cy5-5 | 69571 | 68300 | -2 | 3.03 | 1795 | 13.98 |
| Blue | A | PE-Cy7 | 77815 | 76536 | -2 | 4.01 | 993 | 27.05 |
| Red | C | APC | 65936 | 65215 | -2 | 2.48 | 3685 | 8.21 |
| Red | A | APC-Cy7 | 100669 | 100616 | -1 | 2.55 | 1983 | 8.00 |
| Violet | B | V450 | 10405 | 9821 | -6 | 4.17 | 609 | 8.88 |
| Violet | A | V500 | 47250 | 45585 | -4 | 3.90 | 2575 | 6.46 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 18585 | 19.87 | 617 | 38 | N/A | N/A | Pass |
| Blue | F | SSC | 61366 | 1.96 | 524 | 35 | N/A | N/A | Pass |
| Blue | E | FITC | 107 | 36.24 | 539 | 24 | 0.0221 | 90 | Pass |
| Blue | D | PE | 211 | 25.13 | 531 | 24 | 0.1474 | 107 | Pass |
| Blue | B | PerCP-Cy5-5 | 218 | 41.32 | 619 | 29 | 0.0100 | 0 | Pass |
| Blue | A | PE-Cy7 | 71 | 111.20 | 678 | 32 | 0.0127 | 14 | Pass |
| Red | C | APC | 342 | 26.50 | 589 | 11 | 0.0204 | 0 | Pass |
| Red | A | APC-Cy7 | 123 | 38.39 | 570 | 11 | 0.0047 | 725 | Pass |
| Violet | B | V450 | 65 | 46.23 | 473 | 23 | 0.0416 | 2151 | Pass |
| Violet | A | V500 | 169 | 24.61 | 514 | 26 | 0.0129 | 582 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.62 | 47.70 - 71.54 | N/A | N/A | -31.19 | -30.92 | 0.70 |
| Blue | 20.47 | 16.35 - 24.53 | 1.27 | 1.00 - 1.50 | 0.00 | 0.00 | 1.19 |
| Red | 14.31 | 13.07 - 19.61 | N/A | N/A | 31.49 | 31.78 | 1.10 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.85

## Threshold

Threshold (FSC): 13809

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments